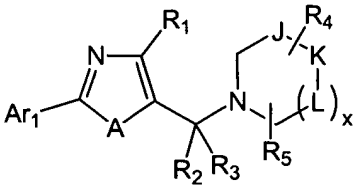
AMENDMENTS TO THE CLAIMS

1. (Original) A compound of Formula IA:



Formula IA

or a pharmaceutically acceptable salt thereof, wherein

A is oxygen, sulfur or NR;

R is C_1-C_7alkyl, C_2-C_7alkenyl, C_2-C_7alkynyl, C_1-C_6haloalkyl, (C_3-C_{10}carbocycle)C_1-C_4alkyl or (4- to 7-membered heterocycloalkyl)C_1-C_4alkyl, each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, oxo, C_1-C_4alkyl, C_1-C_4alkoxy and C_1-C_2alkoxycarbonyl;

x is 0, 1 or 2;

J, K and each occurrence of L are chosen from oxygen, sulfur, NH and CH_2; such that no more than one of J, K and L is chosen from oxygen, sulfur and NH;

R_1 is chosen from:

i) hydrogen, hydroxy, halogen, amino, cyano, nitro, -CHO, -$CONH_2$, C_1-C_6haloalkyl and C_1-C_6haloalkoxy;

ii) C_1-C_6alkyl, C_2-C_7alkenyl, C_2-C_7alkynyl, C_2-C_6alkanoyl, C_1-C_6alkoxy, (C_3-C_7cycloalkyl)C_0-C_4alkyl, (4- to 10-membered heterocycloalkyl)C_0-C_4alkyl, mono- and di-(C_1-C_6alkyl)aminoC_0-C_6alkyl, mono- and di-(C_1-C_6alkyl)carboxamide, C_1-C_6alkoxycarbonyl, -SO_n(C_1-C_6alkyl), -$NHSO_n$$C_1$-$C_6$alkyl, -($C_0$-$C_6$alkyl)$SO_n$($C_1$-$C_6$alkyl), -$SO_n$N($C_1$-$C_6$alkyl)($C_1$-$C_6$alkyl), and -$SO_n$-phenyl, wherein each n is independently 0, 1 or 2, and each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, oxo, C_1-C_4alkyl, C_1-C_4alkoxy and C_1-C_2alkoxycarbonyl; and

iii) naphthyl, phenyl and 5- to 10-membered heteroaryl, each of which is substituted with from 0 to 3 substituents independently chosen from R_{11};

R_2 and R_3 are independently hydrogen or C_1-C_6alkyl;

R_4 represents 1 substituent chosen from:

i) C_1-C_6alkyl, C_2-C_6alkenyl, C_2-C_6alkynyl, C_1-C_6alkoxycarbonyl, (C_3-C_7cycloalkyl)C_0-C_4alkyl and hexahydro-1,3-benzodioxolyl;

ii) aryl having 1 ring or 2 fused or pendant rings;

iii) (4- to 10-membered heterocycloalkyl)C_0-C_4alkyl;

iv) phenyl fused to a 5- to 7-membered saturated or partially unsaturated ring that (a) has 0, 1 or 2 ring atoms independently chosen from N, O and S, with remaining ring atoms being carbon, and (b) is substituted with from 0 to 3 substituents independently chosen from halogen, C_1-C_8alkyl, C_1-C_8alkoxy, C_1-C_8haloalkyl, C_1-C_8haloalkoxy;

v) (5- to 10-membered heteroaryl)C_0-C_4alkyl, having 1 ring or 2 fused or pendant rings, from 5 to 7 members in each ring, and in at least one ring from 1 to 3 heteroatoms independently selected from N, O, and S, wherein R_4 is not pyrimidyl; and

vi) groups that are taken together with an R_5 moiety to form a fused phenyl or pyridyl ring;

wherein each of i), ii), iii), iv), v) and vi) is substituted with from 0 to 3 substituents independently chosen from R_{11};

R_5 represents from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, nitro, -CHO, -$CONH_2$, C_1-C_2haloalkyl, C_1-C_2haloalkoxy, C_1-C_6alkyl, C_1-C_6alkoxy, C_3-C_7cycloalkylC_0-C_4alkyl, mono- and di-(C_1-C_6alkyl)aminoC_0-C_6alkyl, optionally substituted phenyl, and groups that are taken together with R_4 to form a fused, optionally substituted phenyl or pyridyl ring; and

Ar_1 represents

i) phenyl or naphthyl, each of which is substituted with from 0 to 3 substituents independently chosen from amino, cyano, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy, -COOH, -$CONH_2$, mono- and di-(C_1-C_4alkyl)amino, C_2-C_4alkanoyl, C_1-C_4sulfonate, C_1-C_4alkylsulfonyl, C_1-C_4alkylsulfinyl, C_1-C_4alkylthio, C_3-C_6alkanone, C_2-C_4alkyl ether, C_2-C_4alkanoyloxy, C_1-C_4alkoxycarbonyl and C_1-C_6alkylcarboxamide;

ii) phenyl fused to a 5- to 7-membered saturated or partially unsaturated ring that (a) has 0, 1 or 2 ring atoms independently chosen from N, O and S, with remaining

ring atoms being carbon, and (b) is substituted with from 0 to 3 substituents independently chosen from halogen, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_2haloalkyl and C_1-C_2haloalkoxy; or

iii) heteroaryl, having 1 ring or 2 fused or pendant rings, from 5 to 7 members in each ring, and in at least one ring from 1 to 3 heteroatoms independently selected from N, O, and S;

wherein each of ii) and iii) is substituted with from 0 to 3 substituents independently chosen from R_{11}; and

R_{11} is independently chosen at each occurrence from hydroxy, halogen, amino, cyano, C_1-C_6alkyl, C_1-C_6alkoxy, C_1-C_6haloalkyl, C_1-C_6haloalkoxy, -COOH, -$CONH_2$, -SO_2NH_2, mono- and di-(C_1-C_6alkyl)amino, C_2-C_6alkanoyl, C_1-C_6sulfonate, C_1-C_6alkylsulfonyl, C_1-C_6alkylsulfinyl, C_1-C_6alkylthio, C_3-C_6alkanone, C_2-C_6alkyl ether, C_2-C_6alkanoyloxy, C_1-C_6alkoxycarbonyl and C_1-C_6alkylcarboxamide.

2. (Original) A compound or salt according to claim 1, wherein:

R is chosen from C_1-C_7alkyl, C_2-C_7alkenyl, C_2-C_7alkynyl, (C_3-C_7cycloalkyl)C_1-C_4alkyl and (4- to 7-membered heterocycloalkyl)C_1-C_4alkyl, each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, oxo, C_1-C_4alkyl, C_1-C_4alkoxy and C_1-C_2alkoxycarbonyl;

R_1 is chosen from:

i) hydrogen, hydroxy, halogen, amino, cyano, nitro, -CHO, -$CONH_2$, C_1-C_6haloalkyl and C_1-C_6haloalkoxy;

ii) C_1-C_6alkyl, C_1-C_6alkenyl, C_1-C_6alkynyl, C_1-C_6alkoxy, (C_3-C_7cycloalkyl)C_0-C_2alkyl, (4- to 10-membered heterocycloalkyl)C_0-C_2alkyl, and mono- and di-(C_1-C_6alkyl)carboxamide, each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, oxo, C_1-C_4alkyl and C_1-C_4alkoxy, and

iii) naphthyl, phenyl, pyridyl, thiazolyl, pyrimidinyl and thienyl, each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, -COOH, -$CONH_2$, -SO_2NH_2, C_1-C_6haloalkyl, C_1-C_6haloalkoxy, C_1-C_6alkyl, C_1-C_6alkoxy, C_2-C_6alkanoyl, C_1-C_6alkylsulfonyl, C_1-

C_6alkylsulfinyl, C_1-C_6alkylthio, C_3-C_6alkanone, C_2-C_6alkylether, C_2-C_6alkanoyloxy, C_1-C_6alkoxycarbonyl and C_1-C_6alkylcarboxamide;

R_4:

i) represents C_1-C_6alkyl, C_2-C_7alkenyl, C_2-C_7alkynyl, C_1-C_6alkoxycarbonyl, (C_3-C_7cycloalkyl)C_0-C_4alkyl, hexahydro-1,3-benzodioxolyl, phenyl, naphthyl or (4- to 7-membered heterocycloalkyl)C_0-C_4alkyl, each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy, -COOH, -$CONH_2$, mono- and di-(C_1-C_4alkyl)amino, C_2-C_4alkanoyl, C_1-C_4sulfonate, C_1-C_4alkylsulfonyl, C_1-C_4alkylsulfinyl, C_1-C_4alkylthio, C_3-C_6alkanone, C_2-C_4alkyl ether, C_2-C_4alkanoyloxy, C_1-C_4alkoxycarbonyl, and C_1-C_6alkylcarboxamide; or

ii) is phenyl fused to a 5- to 7-membered saturated or partially unsaturated ring that (a) has 0, 1 or 2 ring atoms independently chosen from N, O and S, with remaining ring atoms being carbon, and (b) is substituted with from 0 to 3 substituents independently chosen from halogen, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_2haloalkyl and C_1-C_2haloalkoxy; or

iii) is taken together with an R_5 moiety to form a fused phenyl or pyridyl ring that is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy, -COOH, -$CONH_2$, and mono- and di-(C_1-C_4alkyl)amino;

R_5 represents from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy, -COOH, -$CONH_2$, mono- and di-(C_1-C_4alkyl)amino, and groups that are taken together with R_4 to form a fused, optionally substituted phenyl or pyridyl ring; and

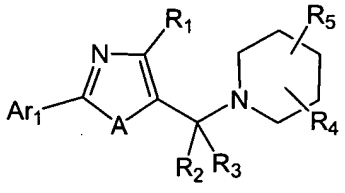
Ar_1 represents phenyl, naphthyl, pyridyl, pyrimidinyl, pyridizinyl, pyrazinyl, pyrazolyl, imidazolyl, thiazolyl, isothiazolyl, pyrrolyl, oxazolyl, furanyl, indazolyl or thienyl, each of which is substituted with from 0 to 3 substituents independently chosen from amino, cyano, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy, -COOH, -$CONH_2$, mono- and di-(C_1-C_4alkyl)amino, C_2-C_4alkanoyl, C_1-C_4sulfonate, C_1-C_4alkylsulfonyl, C_1-C_4alkylsulfinyl, C_1-C_4alkylthio, C_3-C_6alkanone, C_2-C_4alkyl ether, C_2-C_4alkanoyloxy, C_1-C_4alkoxycarbonyl and C_1-C_6alkylcarboxamide.

3. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein A is oxygen.

4. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein A is sulfur.

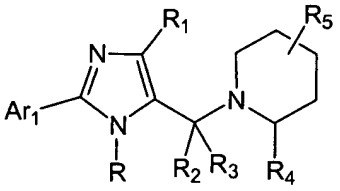
5. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein A is NR.

6. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein the compound satisfies Formula II:



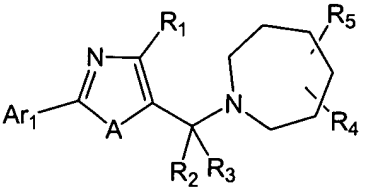
Formula II.

7. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein the compound satisfies Formula III:



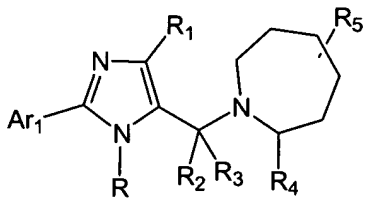
Formula III.

8. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein the compound satisfies Formula IV:



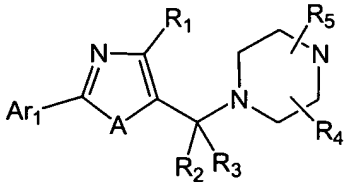
Formula IV.

9. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein the compound satisfies Formula V:



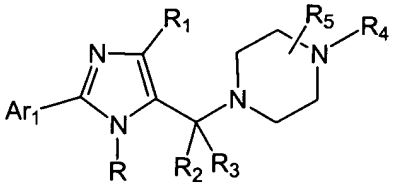
Formula V.

10. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein the compound satisfies Formula VI:



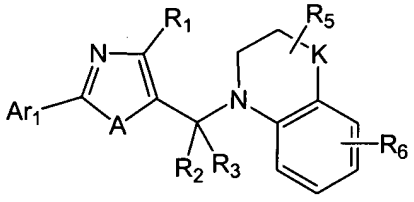
Formula VI.

11. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein the compound satisfies Formula VII:



Formula VII.

12. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein the compound satisfies Formula VIII:



Formula VIII

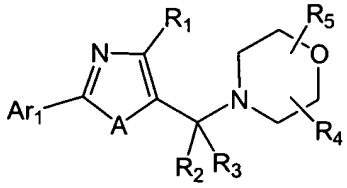
wherein:

K is CH_2 or NH; and

R_6 represents from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, C_1C_4alkyl, C_1-C_4alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy, -COOH, -$CONH_2$ and mono- and di-(C_1-C_4alkyl)amino.

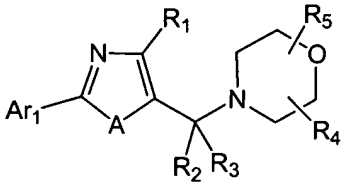
13. (Cancelled).

14. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein the compound satisfies Formula IX:



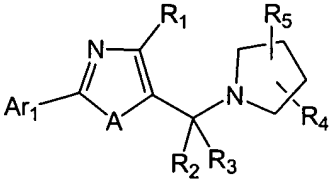
Formula IX.

15. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein the compound satisfies Formula X:



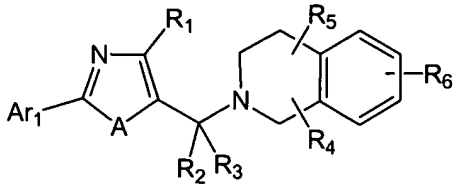
Formula X.

16. (Currently Amended) A compound or salt according to claim 1~~or claim 2~~, wherein the compound satisfies Formula XI:



Formula XI.

17. (Currently Amended) A compound or salt according to claim 1, wherein the compound satisfies Formula XII:



Formula XII

wherein R_6 represents from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, C_1C_4alkyl, C_1-C_4alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy, -COOH, -$CONH_2$ and mono- and di-(C_1-C_4alkyl)amino.

18. (Currently Amended) A compound or salt according to ~~any one of claims 1 to 17~~claim 1, wherein R_2 and R_3 are both hydrogen.

19. (Currently Amended) A compound or salt according to ~~any one of claims 1 to 18~~claim 1, wherein Ar_1 is phenyl, pyridyl, indazolyl or thienyl, each of which is substituted with 0 to 3 substituents independently chosen from C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy and mono- and di-(C_1-C_2alkyl)amino.

20-22. (Cancelled).

23. (Currently Amended) A compound or salt according to ~~any one of claims 2 through 22~~claim 2, wherein R_1 is:

i) halogen;

ii) C_1-C_6alkyl, C_2-C_6alkenyl, C_1-C_6alkoxy, (C_3-C_7cycloalkyl)C_0-C_4alkyl, pyrrolidinylC_0-C_2alkyl, morpholinylC_0-C_2alkyl, piperinylC_0-C_2alkyl or piperazinylC_0-C_2alkyl, each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, oxo, C_1-C_4alkyl and C_1-C_4alkoxy; or

iii) phenyl or pyridyl, each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, -COOH, -$CONH_2$, -SO_2NH_2, C_1-C_2haloalkyl, C_1-C_2haloalkoxy, C_1-C_6alkyl, C_1-C_6alkoxy, and mono- and di-(C_1-C_4alkyl)amino.

24-25. (Cancelled).

26. (Currently Amended) A compound or salt according to ~~any one of claims 5 through 25~~claim 5, wherein R is C_1-C_7alkyl, C_2-C_7alkenyl, (C_3-C_7cycloalkyl)C_1-

C_4alkyl or (1,3-dioxylan-2-yl)C_1-C_4alkyl, each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, oxo, C_1-C_4alkyl and C_1-C_4alkoxy.

27. (Cancelled).

28. (Currently Amended) A compound or salt according to ~~any one of claims 3 to 27~~claim 3, wherein R_4 is C_1-C_6alkyl, C_1-C_6alkoxycarbonyl or C_3-C_7 cycloalkyl, each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, C_1-C_2alkyl, C_1-C_2alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy, -COOH, -$CONH_2$, and mono- and di-(C_1-C_4alkyl)amino.

29. (Currently Amended) A compound or salt according to ~~any one of claims 3 to 27~~claim 3, wherein R_4 is phenylC_0-C_1alkyl, pyridylC_0-C_1alkyl, pyrimidylC_0-C_1alkyl, thienylC_0-C_1alkyl, naphthylC_0-C_1alkyl, indolylC_0-C_1alkyl, benzoxadiazolylC_0-C_1alkyl, benzoxazolylC_0-C_1alkyl, quinazolinylC_0-C_1alkyl, benzothiazolylC_0-C_1alkyl or benzimidazolylC_0-C_1alkyl, each of which is substituted with from 0 to 2 substituents independently chosen from hydroxy, halogen, amino, cyano, C_1-C_2 alkyl, C_1-C_2alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy and mono- and di-(C_1-C_2alkyl)amino.

30-35. (Cancelled) .

36. (Currently Amended) A compound or salt according to ~~any one of claims 3 to 33~~claim 3, wherein R_5 represents from 0 to 3 substituents independently chosen from hydroxy, halogen, C_1-C_2alkyl, and C_1-C_2alkoxy.

37-39. (Cancelled) .

40. (Currently Amended) A pharmaceutical composition comprising at least one compound or salt according to ~~any one of claims 1-35~~claim 1, in combination with a physiologically acceptable carrier or excipient.

41. (Original) A pharmaceutical composition according claim 40, wherein the pharmaceutical composition is formulated as an injectible fluid, an aerosol, a cream, a gel, a pill, a capsule, a syrup, or a transdermal patch.

42. (Currently Amended) A method for inhibiting signal-transducing activity of a cellular C5a receptor, comprising contacting a cell expressing C5a receptor with at least one compound or salt according to ~~any one of claims 1-35~~claim 1, and thereby reducing signal transduction by the C5a receptor.

43. (Original) A method according to claim 42, wherein the cell is contacted *in vivo* in an animal.

44. (Original) A method according to claim 43, wherein the animal is a human.

45. (Cancelled).

46. (Currently Amended) A method for inhibiting binding of C5a to C5a receptor in a human patient, comprising contacting cells expressing C5a receptor with at least one compound or salt according to ~~any one of claims 1-35~~claim 1, in an amount sufficient to detectably inhibit C5a binding to cells expressing a cloned C5a receptor *in vitro*, and thereby inhibiting binding of C5a to the C5a receptor in the patient.

47. (Currently Amended) A method for treating a patient suffering from rheumatoid arthritis, psoriasis, cardiovascular disease, reperfusion injury, or bronchial asthma comprising administering to the patient a C5a receptor modulatory amount of a compound or salt according to ~~any one of claims 1-35~~claim 1.

48. (Currently Amended) A method for treating a patient suffering from stroke, myocardial infarction, atherosclerosis, ischemic heart disease, or ischemia-reperfusion injury comprising administering to the patient a C5a receptor modulatory amount of a compound or salt according to ~~any one of claims 1-35~~claim 1.

49. (Currently Amended) A method for treating a patient suffering from cystic fibrosis or sepsis, comprising administering to a patient in need of such treatment a C5a receptor modulatory amount of a compound or salt according to ~~any one of claims 1-35~~claim 1.

50. (Currently Amended) A method for inhibiting C5a receptor-mediated cellular chemotaxis, comprising contacting mammalian white blood cells with a C5a receptor modulatory amount of a compound or salt according to ~~any one of claims 1-35~~claim 1.

51-55. (Cancelled).

56. (New) A compound or salt according to claim 4, wherein R_4 is C_1-C_6alkyl, C_1-C_6alkoxycarbonyl or C_3-C_7 cycloalkyl, each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, C_1-C_2alkyl, C_1-C_2alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy, -COOH, -$CONH_2$, and mono- and di-(C_1-C_4alkyl)amino.

57. (New) A compound or salt according to claim 5, wherein R_4 is C_1-C_6alkyl, C_1-C_6alkoxycarbonyl or C_3-C_7 cycloalkyl, each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, C_1-C_2alkyl, C_1-C_2alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy, -COOH, -$CONH_2$, and mono- and di-(C_1-C_4alkyl)amino.

58. (New) A compound or salt according to claim 4, wherein R_4 is phenylC_0-C_1alkyl, pyridylC_0-C_1alkyl, pyrimidylC_0-C_1alkyl, thienylC_0-C_1alkyl, naphthylC_0-C_1alkyl, indolylC_0-C_1alkyl, benzoxadiazolylC_0-C_1alkyl, benzoxazolylC_0-C_1alkyl, quinazolinylC_0-C_1alkyl, benzothiazolylC_0-C_1alkyl or benzimidazolylC_0-C_1alkyl, each of which is substituted with from 0 to 2 substituents independently chosen from hydroxy, halogen, amino, cyano, C_1-C_2 alkyl, C_1-C_2alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy and mono- and di-(C_1-C_2alkyl)amino.

59. (New) A compound or salt according to claim 5, wherein R_4 is phenylC_0-C_1alkyl, pyridylC_0-C_1alkyl, pyrimidylC_0-C_1alkyl, thienylC_0-C_1alkyl, naphthylC_0-C_1alkyl, indolylC_0-C_1alkyl, benzoxadiazolylC_0-C_1alkyl, benzoxazolylC_0-C_1alkyl, quinazolinylC_0-C_1alkyl, benzothiazolylC_0-C_1alkyl or benzimidazolylC_0-C_1alkyl, each of which is substituted with from 0 to 2 substituents independently chosen from hydroxy, halogen,

amino, cyano, C_1-C_2 alkyl, C_1-C_2alkoxy, C_1-C_2haloalkyl, C_1-C_2haloalkoxy and mono- and di-(C_1-C_2alkyl)amino.

60. (New) A compound or salt according to claim 4, wherein R_5 represents from 0 to 3 substituents independently chosen from hydroxy, halogen, C_1-C_2alkyl, and C_1-C_2alkoxy.

61. (New) A compound or salt according to claim 5, wherein R_5 represents from 0 to 3 substituents independently chosen from hydroxy, halogen, C_1-C_2alkyl, and C_1-C_2alkoxy.